

In re Patent Application of:

**MEHUYS ET AL.**

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**IN THE DESCRIPTION**

[28] An embodiment of a WDM receiver 200 is illustrated in FIG. 2, showing multiple levels of demultiplexing and amplification in a forty-channel receiver. A WDM signal [[201]] is received through an input 202 and is directed to a de-interleaver 204, which de-interleaves the incoming WDM signal into two signals. Thus, if the incoming signal contains forty channels, the de-interleaver produces two de-interleaved signals of twenty channels each. One of the de-interleaved signals is directed to a first demultiplexer 208, which splits the twenty channels among five four-channel outputs 210a, 210b, 210c, 210d and 210e. Each four-channel output 210a, 210b, 210c, 210d and 210e is directed through a second demultiplexer 212 to separate the channels into individual channels on paths 214, each of which is from there directed to its own individual detector 216. Only one second demultiplexer 212 and one detector 216 are illustrated to maintain clarity.